

Comparisons of Job Characteristics

Focus Occupation: Rotary Drill Operators, Oil and Gas (47-5012)

Associated Occupation: Earth Drillers, Except Oil and Gas (47-5021)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 87

Focus Occupation: Rotary Drill Operators, Oil and Gas (47-5012)
Associated Occupation: Earth Drillers, Except Oil and Gas (47-5021)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Mechanical	6.8	15.0	15.3	0	Current knowledge level may be sufficient
Public Safety and Security	6.9	9.2	7.3	<	Expanded education and/or training may be required
Building and Construction	4.0	7.6	4.5	<<	Extensive education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 82

Focus Occupation: Rotary Drill Operators, Oil and Gas (47-5012)
Associated Occupation: Earth Drillers, Except Oil and Gas (47-5021)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Operation and Control	5.4	13.0	11.5	<	A higher skill level may be required
Operation Monitoring	6.6	13.0	11.2	<	A higher skill level may be required
Equipment Maintenance	3.5	9.0	8.6	0	Current skill level may be sufficient
Repairing	3.4	8.4	8.8	0	Current skill level may be sufficient
Troubleshooting	4.5	8.0	8.4	0	Current skill level may be sufficient
Equipment Selection	3.3	7.3	6.2	<	A higher skill level may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities

Similarity of Focus Occupation to Associated Occupation: 84

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Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Control Precision	6.6	13.9	13.0	0	Current ability level may be sufficient
Multilimb Coordination	6.0	12.3	11.6	0	Current ability level may be sufficient
Reaction Time	4.8	11.5	9.0	<	Some improvement in abilities may be required
Manual Dexterity	6.5	11.4	11.4	0	Current ability level may be sufficient
Depth Perception	5.3	10.8	7.9	<<	Extensive improvement in abilities may be required
Rate Control	3.8	10.6	10.0	0	Current ability level may be sufficient
Response Orientation	4.0	10.2	7.2	<<	Extensive improvement in abilities may be required
Hearing Sensitivity	5.6	9.2	7.3	<	Some improvement in abilities may be required
Spatial Orientation	2.7	6.5	5.0	<	Some improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: 99

Focus Occupation: Rotary Drill Operators, Oil and Gas (47-5012)
Associated Occupation: Earth Drillers, Except Oil and Gas (47-5021)

Work Activities	Exclusivity of Activity
Connect sections of drill pipe	99
Drive truck with capacity greater than 3 tons	72
Extract core sample or drill rod from well hole	99
Inspect core samples to determine nature of strata	95
Maintain or repair construction machinery or equipment	77
Monitor operation of drilling equipment	95
Operate earth-moving or other heavy construction equipment	80
Record drilling progress or geological data	99
Remove or retrieve tools, equipment, casings or pipe from wells	95
Use hand or power tools	2
Use measuring devices in construction or extraction work	41

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: n/a

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Tools and Technologies

Exclusivity

Tools and technology data is unavailable for one or both occupations.

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.